

Numbers: 1, -4, 2.91

Strings: "hello", "Gray Area", "9031", "AB\$D("

Boolean: true, false

Arrays

```
[1,2,3]
```

```
["a", "foo", "delta"]
```

```
[[1,2], [2,3], [4,5]]
```

```
[true, false, 1, "delta"]
```

```
var array = [1,2,3];
```

```
console.log(array[0]);
```

```
console.log(array[1]);
```

```
console.log(array[2]);
```

```
array[2] = 9;
```

```
console.log(array[2]);
```

Objects

Objects are Phone Books

```
var object = {"john": "801-555-5555",  
              "jane": "415-291-2391",  
              "emergency": "911"}
```

1. opening curly brace
2. key, colon, value, comma
3. closing curly brace

```
{ "a": 3,  
  "b": 9 }
```

```
{ "20": [1,2,3],  
  "21": [2,3,4],  
  "999": [1, [1, true, "foo"]]  
}
```

```
{  
  "car1": { "color": "red", wheels: 4 },  
  "car2": { "color": "blue", wheels: 9 }  
}
```

```
var obj = {"a": 3};
```

```
console.log(obj.a);  
console.log(obj["a"]);
```

```
obj.a = 90;  
obj["a"] = 90;
```

```
console.log(obj.a);
```

```
obj.b = 91;
```

```
var scores = {"zoe": 12, "clancey": 40,  
"greg": -4};
```

```
scores["zoe"] += 1;  
scores["clancey"] += 1;  
scores["greg"] += 1;
```

```
// new syntax  
for(var name in scores) {  
    scores[name] += 1;  
}
```


Nested structures (JSON)

```
var json = {  
  "a": [1],  
  "b": {  
    "c": {  
      "foo": { "bar": 1 },  
      "foo2": { "bar": 2 }  
    }  
  }  
}
```